

Security Awareness Lab

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Security Awareness Labs

Outline

- Passwords
- Browsers and extensions
- Data/Password Breaches
- OSINT
- Tips and Advice

password 123456 12345678 1234 gwerty 12345 dragon pussy baseball football letmein monkey 696969 abc123 15 mustang michael 17 shadow master 19 jennifer 20 111111

2023: TOP 20 most used passwords

- 10% of all users has a top 20 password
- 91% of all users has a top-1000 pasword!

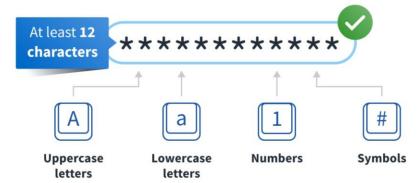




Strong Password Tips...

- One password per service/website
 - O Never re-use a password
- Don't use "password reminder sentences"
 - Or better lie!!!
- Use Password managers
- At least 12 characters

How to Create a Strong Password





How to remember a strong password?





The ultimate password?!

 https://www.security.org/ how-secure-is-mypassword/





Get (any of) these password managers NOW!!!



AND their browser extensions

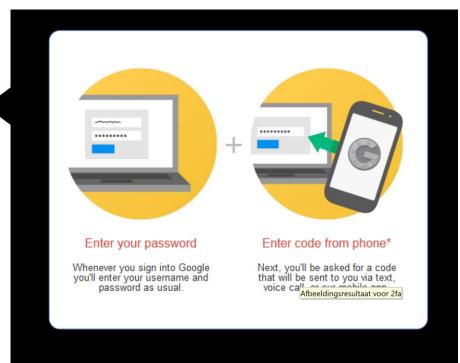




Use 2FA

 2-factor authentication: use your phone (eg sms) as additional security







Install & use **ONLY these** web browsers!!!



Use **ONLY this** search engine



Install **these** web browser extensions **NOW!!!**



Home > Extensions > uBlock Origin

uBlock Origin

Peatured

★ ★ ★ ★ 26,400 (i) | Productivity | 10,000,000+ users

Home > Extensions > Adblock Plus - free ad blocker



Adblock Plus - free ad blocker

★ ★ ★ ★ 177,586 (i) | Productivity | 10,000,000+ users

Home > Extensions > Ghostery - Privacy Ad Blocker



Ghostery – Privacy Ad Blocker

★ ★ ★ ★ 12,835 (i) | Productivity | 2,000,000+ users

Home > Extensions > Privacy Badger



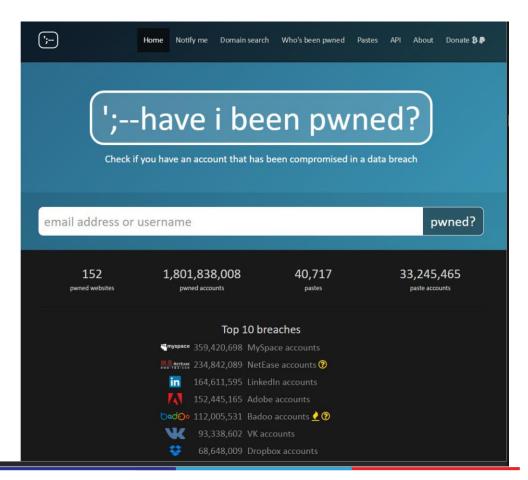
Privacy Badger

★ ★ ★ ★ 1,687 (i) | Productivity | 1,000,000+ users

RENU

Are my password(s) known?

 Subscribe to: https://haveibeenpwned.com/



Social Engineering Red Flags





- . I don't recognize the sender's email address as someone I ordinarily communicate with.
- This email is from someone outside my organization and it's not related to my job responsibilities.
- This email was sent from someone inside the organization or from a customer, vendor, or partner and is very unusual or out of character.
- Is the sender's email address from a suspicious domain (like micorsoft-support.com)?
- I don't know the sender personally and they were not vouched for by someone I trust.
- . I don't have a business relationship nor any past communications with the sender.
- This is an unexpected or unusual email with an embedded hyperlink or an attachment from someone I haven't communicated with recently.



- . I was cc'd on an email sent to one or more people, but I don't personally know the other people it was sent to.
- I received an email that was also sent to an unusual mix of people. For instance, it might be sent to a random group of people at my organization whose last names start with the same letter, or a whole list of unrelated addresses.



- . I hover my mouse over a hyperlink that's displayed in the email message, but the link-to address is for a different website. (This is a big red flag.)
- I received an email that only has long hyperlinks with no further information, and the rest of the email is completely blank.
- I received an email with a hyperlink that is a misspelling of a known web site. For instance, www.bankofarnerica.com — the "m" is really two characters — "r" and "n."



From: YourCEO@vourorganization.com To: You@yourorganization.com

Date: Monday December 12, 2016 3:00 pm Subject: My money got stolen 4-

Hi, I'm on vacation in London and my money and passport were

0 0

They gave me a special link so this goes right into my account and I can buy a ticket home: http://www.bankofarnerica.com

Thanks so much. This really helps me out!

stolen out of my bag. Could you wire me \$300 via Bank of America?

Your CEO

 Did I receive an email that I normally would get during regular business hours, but it was sent at an unusual time like 3 a.m.?



SUBJECT

- Did I get an email with a subject line that is irrelevant or does not match the message content?
- . Is the email message a reply to something I never sent or requested?



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- . The sender included an email attachment that I was not expecting or that makes no sense in relation to the email message. (This sender doesn't ordinarily send me this type of attachment.)
- I see an attachment with a possibly dangerous file type. The only file type that is always safe to click on is a .txt file.

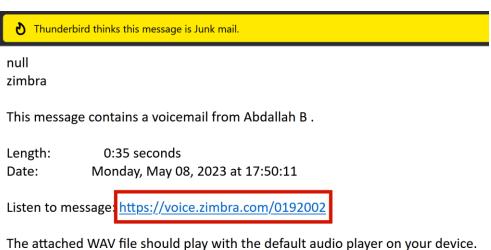


- Is the sender asking me to click on a link or open an attachment to avoid a negative consequence or to gain something of value?
- Is the email out of the ordinary, or does it have bad grammar or spelling errors?
- Is the sender asking me to click a link or open up an attachment that seems odd or illogical?
- . Do I have an uncomfortable gut feeling about the sender's request to open an attachment or click a link?
- Is the email asking me to look at a compromising or embarrassing picture of myself or someone I know?

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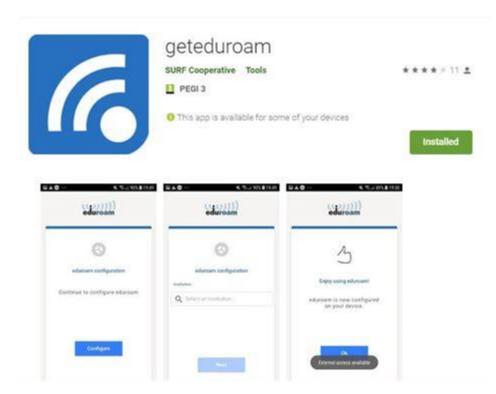




eduroam CAT and geteduroam











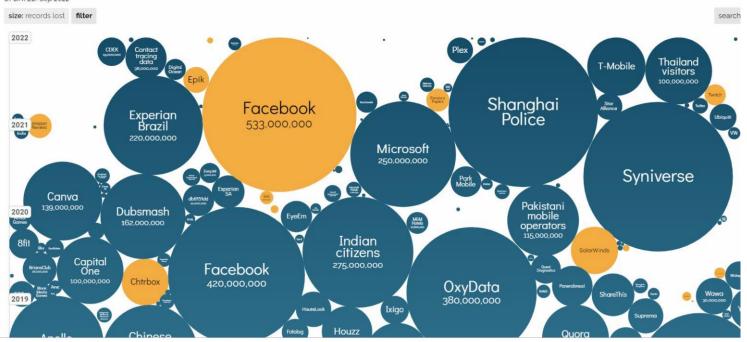






World's Biggest Data Breaches & Hacks

Selected events over 30,000 records



 $\underline{\text{http://www.informationisbeautiful.net/visualizations/worlds-biggest-data-breaches-hacks/data-breache$

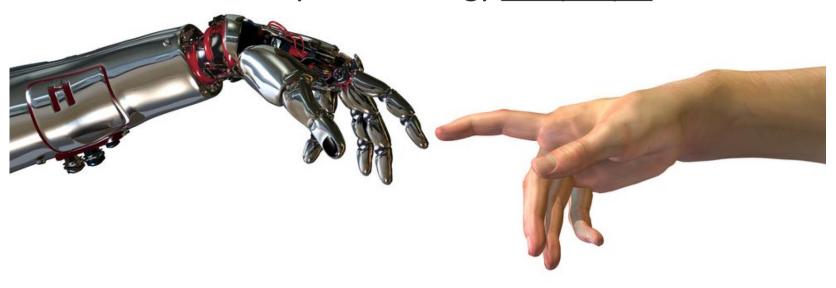


How invisible are you? You're not!

- Not only google can be used to find you.
- https://osintframework.com/



Security is technology and people







Some extra reminders

- USB sticks can be very dirty
- Use uBlock Origin, Adblock plus & Ghostery
- Never disable your Firewall!
- Always keep your Windows/MacOS updated
- Only open emails from people you can trust... and be vigilant when opening attachments and links.
- Lock your pc when you're not around



QnA + Discussion

Write to <u>cert@renu.ac.ug</u>
For anything cybersecurity-related

SECURITY IS EVERYONE'S RESPONSIBILITY